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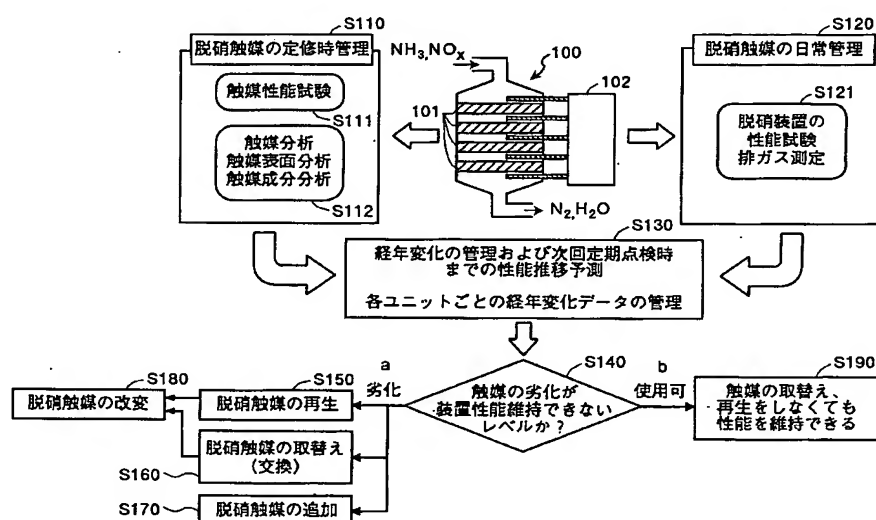
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(54) Title: DENITRATION CATALYST MANAGEMENT METHOD AND DENITRATION CATALYST MANAGEMENT DEVICE

(54) 発明の名称: 脱硝触媒管理方法および脱硝触媒管理装置



- S110...PERIODICAL MAINTENANCE MANAGEMENT OF DENITRATION CATALYST
S111...CATALYST PERFORMANCE TEST
S112...CATALYST ANALYSIS, CATALYST SURFACE ANALYSIS, CATALYST COMPONENT ANALYSIS
S120...DAILY MANAGEMENT OF DENITRATION CATALYST
S121...DENITRIZER PERFORMANCE TEST, EXHAUST GAS MEASUREMENT
S130...MANAGEMENT OF VARIATION WITH TIME AND PREDICTION OF PERFORMANCE CHANGE TILL NEXT PERIODICAL INSPECTION, MANAGEMENT OF DATA ON VARIATION WITH TIME OF EACH UNIT
S180...CHANGE OF SHAPE OF DENITRATION CATALYST
S150...REGENERATION OF DENITRATION CATALYST
S160...REPLACEMENT OF DENITRATION CATALYST (REPLACEMENT)
S170...ADDITION OF DENITRATION CATALYST
a...DETERIORATION
S140...HAS DETERIORATION OF CATALYST REACHED LEVEL AT WHICH DENITRIZER CANNOT EXHIBIT ITS PERFORMANCE?
b...USABLE
S190...PERFORMANCE CAN BE EXHIBITED EVEN IF CATALYST IS NOT REPLACED NOR REGENERATED

(57) Abstract: Data on variation with time of each unit of denitration catalyst (101) is managed according to the data collected by periodical maintenance management (step S110) and daily management (step S120), and management of variation with time and prediction of performance change till the next periodical inspection are performed (step S130). It is determined whether or not the deterioration of the denitration catalyst (101) reaches the level at which an exhaust gas denitrizer (100) cannot exhibit its performance (step S140). If the deterioration is judged to have reached the level (step S140: deterioration), the denitration catalyst (101) is regenerated or replaced, or a denitration catalyst is added (steps S150, 160, 170), or the shape of the catalyst is changed if necessary (step S180). If the denitration catalyst can be still used (step S140: usable), the denitration catalyst (101) is not replaced nor regenerated (step S190).

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ABSTRACT

Secular change data on each unit of denitration catalysts (101) is managed based on data obtained by a periodic maintenance management (step S110) and a daily management (step S120), and
5 management of a secular change and a performance variation prediction until a next periodic check is performed (step S130). It is determined whether a deterioration of the denitration catalyst (101) reaches a level at which a performance of an exhaust-gas denitration system (100) cannot be maintained (step S140). If it is determined
10 that the deterioration is positive ("deteriorated" at step S140), then a regeneration, a replacement, or an addition of the denitration catalyst (101) is performed (steps S150, 160, and 170), the denitration catalyst is altered if necessary (step S180), and the denitration catalyst (101) is not replaced or regenerated (step S190) if it is recognized that the
15 catalyst is usable ("usable" at step S140).